

# YEAR 9 — REASONING WITH GEOMETRY... Pythagoras' theorem

@whisto\_maths

## What do I need to be able to do?

By the end of this unit you should be able to:

- Use square and cube roots
- Identify the hypotenuse
- Calculate the hypotenuse
- Find a missing side in a Right angled triangle
- Use Pythagoras' theorem on axes
- Explore proofs of Pythagoras' theorem

## Keywords

**Square number:** the output of a number multiplied by itself

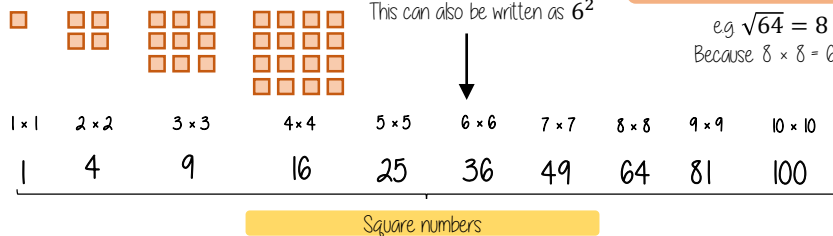
**Square root:** a value that can be multiplied by itself to give a square number

**Hypotenuse:** the largest side on a right angled triangle. Always opposite the right angle.

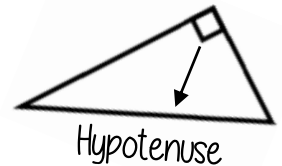
**Opposite:** the side opposite the angle of interest

**Adjacent:** the side next to the angle of interest

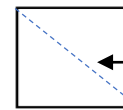
## Squares and square roots



## Identify the hypotenuse

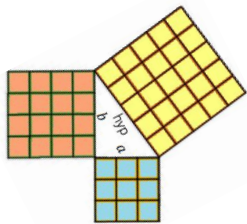


The hypotenuse is always the longest side on a triangle because it is opposite the biggest angle.



Polygons can still have a hypotenuse if it is split up into triangles and opposite a right angle

## Determine if a triangle is right-angled



If a triangle is right-angled, the sum of the squares of the shorter sides will equal the square of the hypotenuse.

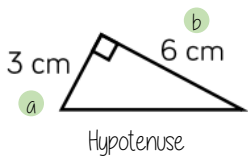
$$a^2 + b^2 = \text{hypotenuse}^2$$

eg  $a^2 + b^2 = \text{hypotenuse}^2$

$$\begin{aligned} 3^2 + 4^2 &= 5^2 \\ 9 + 16 &= 25 \end{aligned}$$

Substituting the numbers into the theorem shows that this is a right-angled triangle

## Calculate the hypotenuse



Either of the short sides can be labelled a or b

$$a^2 + b^2 = \text{hypotenuse}^2$$

1 Substitute in the values for a and b

$$3^2 + 6^2 = \text{hypotenuse}^2$$

$$9 + 36 = \text{hypotenuse}^2$$

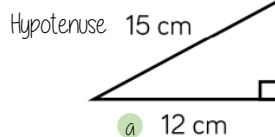
$$45 = \text{hypotenuse}^2$$

2 To find the hypotenuse square root the sum of the squares of the shorter sides

$$\sqrt{45} = \text{hypotenuse}$$

$$6.71\text{cm} = \text{hypotenuse}$$

## Calculate missing sides



Either of the short sides can be labelled a or b

$$a^2 + b^2 = \text{hypotenuse}^2$$

$$12^2 + b^2 = 15^2$$

1 Substitute in the values you are given

$$144 + b^2 = 225$$

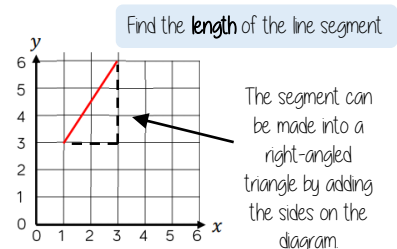
Rearrange the equation by subtracting the shorter square from the hypotenuse squared

Square root to find the length of the side

$$b^2 = 111$$

$$b = \sqrt{111} = 10.54\text{ cm}$$

## Pythagoras' theorem on a coordinate axis



The line segment is the hypotenuse

$$a^2 + b^2 = \text{hypotenuse}^2$$

The lengths of a and b are the sides of the triangle.

Be careful to check the scale on the axes

# YEAR 9 — REASONING WITH GEOMETRY... Enlargement & Similarity

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## What do I need to be able to do?

By the end of this unit you should be able to:

- Recognise enlargement and similarity
- Enlarge a shape by a positive SF
- Enlarge a shape from a point
- Enlarge a shape by a fractional SF
- Work out missing sides and angles in a pair of similar shapes.

## Keywords

**Similar Shapes:** shapes of different sizes that have corresponding sides in equal proportion and identical corresponding angles.

**Scale Factor:** the multiple describing how much a shape has been enlarged

**Enlarge:** to change the size of a shape (enlargement is not always making a shape bigger)

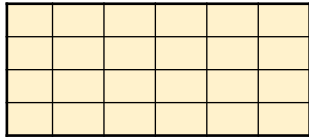
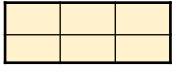
**Corresponding:** objects (or sides) that appear in the same place in two similar situations.

**Image:** the picture or visual representation of the shape

## Recognise enlargement & similarity

Shapes are similar if all pairs of corresponding sides are in the same ratio

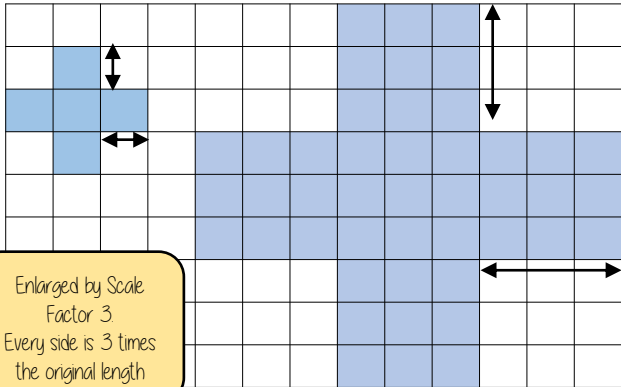
These shapes are similar because all sides are increased by the same ratio



Enlargements are similar shapes with a ratio other than 1

## Enlarge by a positive scale factor

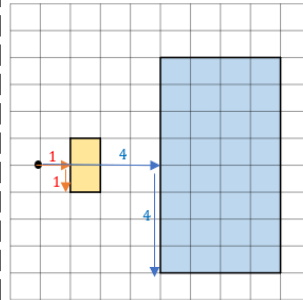
With a scale factor larger than 1 it makes the shape bigger



Enlarged by Scale Factor 3  
Every side is 3 times the original length

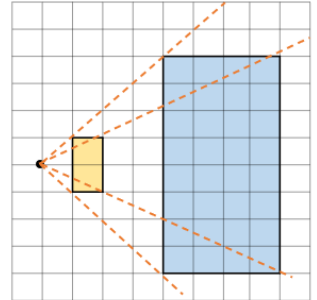
## Enlarge a shape from a point

Scaled distances method



Scale the distance between the point of enlargement and each corresponding vertices

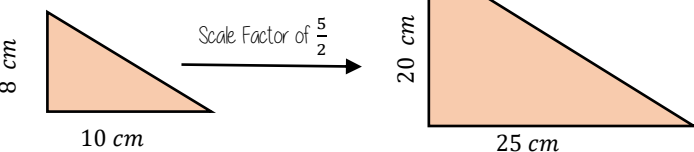
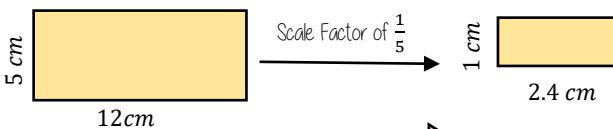
Rays method



Multiply the distance from the centre of corresponding vertices by the scale factor along the ray

## Positive fractional scale factor

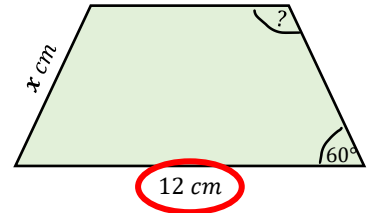
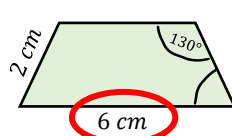
With a scale factor between 0 and 1 it makes the shape smaller



## Calculations in similar shapes

Don't forget that properties of shapes don't change with enlargements or in similar shapes

The two trapezium are similar find the missing side and angle



Corresponding sides identify the scale factor

$$\frac{12}{6} = 2$$

Scale Factor = 2

Calculate the missing side

Length (corresponding side)  $\times$  scale factor  
 $2\text{ cm} \times 2$   
 $x = 4\text{ cm}$

Enlargement does not change angle size

Calculate the missing angle

Corresponding angles remain the same  
 $130^\circ$

# YEAR 9 — REASONING WITH GEOMETRY...

## Solving ratio & proportion problems

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### What do I need to be able to do?

By the end of this unit you should be able to:

- Solve problems with direct proportion
- Use conversion graphs
- Solve problems with inverse proportion
- Solve ratio problems
- Solve 'best buy' problems

### Keywords

**Proportion:** a comparison between two numbers

**Ratio:** a ratio shows the relative size of two variables

**Direct proportion:** as one variable is multiplied by a scale factor the other variable is multiplied by the same scale factor.

**Inverse proportion:** as one variable is multiplied by a scale factor the other is divided by the same scale factor.

### Direct Proportion

As one variable changes the other changes at the same rate.

R



4 cans of pop = £2.40

4 cans of pop = £2.40  
2 cans of pop = £1.20

This multiplier is the same in the same way that this would be for ratio

This is a multiplicative change

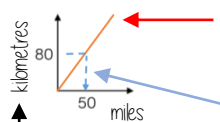
4 cans of pop = £2.40  
12 cans of pop = £7.20

Sometimes this is easiest if you work out how much one unit is worth first e.g. 1 can of pop = £0.60

### Conversion Graphs

Compare two variables

R



This is always a straight line because as one variable increases so does the other at the same rate

To make conversions between units you need to find the point to compare — then find the associated point by using your graph  
Using a ruler helps for accuracy  
Showing your conversion lines help as a "check" for solutions

### Inverse Proportion

As one variable is multiplied by a scale factor the other is divided by the same scale factor

Examples of inversely proportional relationships

Time taken to fill a pool and the number of taps running

Time taken to paint a room and the number of workers

T is inversely proportional to G. When T=2 then G=20

T	1	2	8
G	40	20	5

Annotations:  $\div 2$  and  $\times 4$  above the table;  $\times 2$  and  $\div 4$  below the table.

### Best Buys

Have a directly proportional relationship

To calculate best buys you need to be able to compare the cost of one unit or units of equal amounts



Shop A

4 cans for £1.20

£1.20 ÷ 4

Cost per item

1 can is £0.30  
Or 30p

Shop B

3 cans for 93p

£0.93 ÷ 3

1 can is £0.31  
Or 31p

Shop A is the best value as it is 1p cheaper per can of pop



Shop A

4 cans for £1.20

4 ÷ £1.20

Cost per pound

£1 buys 3.333 cans of pop

3 cans for 93p

3 ÷ £0.93

£1 buys 3.23 cans of pop

Shop A is still shown as being the best value but pay attention to the unit you are calculating, per item or per pound

Best value is the most product for the lowest price per unit

### Sharing a whole into a given ratio

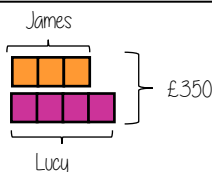
R

James and Lucy share £350 in the ratio 3:4. Work out how much each person earns

Model the Question

James: Lucy

3 : 4



£350 ÷ 7 = £50

□ = one part = £50

Find the value of one part

Whole: £350  
7 parts to share between  
(3 James, 4 Lucy)

Put back into the question

James: Lucy

James = 3 × £50 = £150

Lucy = 4 × £50 = £200

(x 50) 3 : 4 (x 50)  
£150 : £200

### Finding a value given 1:n (or n:1)

R

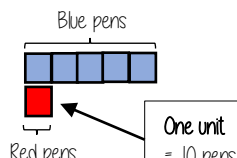
Inside a box are blue and red pens in the ratio 5:1. If there are 10 red pens how many blue pens are there?

Model the Question

Blue : Red

5 : 1

□ = one part = 10 pens



Put back into the question

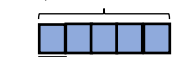
Blue: Red

(x 10) 5 : 1 (x 10)

50 : 10

There are 50 Blue Pens

Blue pens = 5 × 10 = 50 pens



Red pens = 1 × 10 = 10 pens

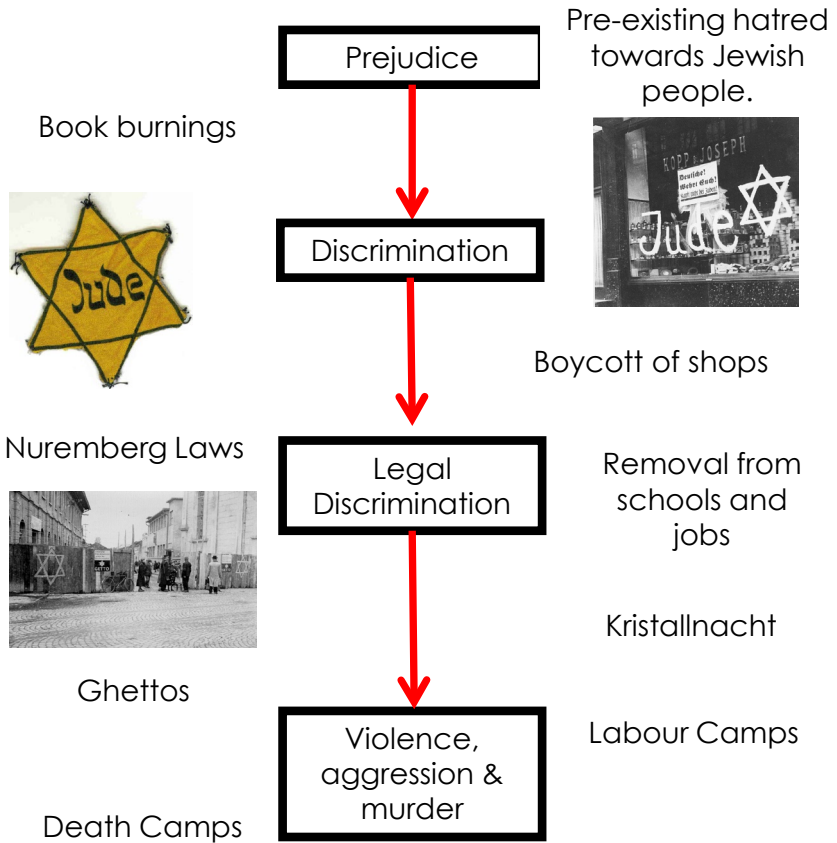
# Year 9 GCSE Science Term Knowledge Organiser – Home Electricity

Key Vocabulary:	15 Mains Electricity	19 Power	
1 <b>Alternating Current (A.C)</b>	<p>1. Voltage can also be called potential difference</p> <p>2. Potential difference is measured in Volts (V) using a voltmeter.</p> <p>3. A simple circuit has two wires - a live wire and a neutral wire.</p> <p>4. The live wire (brown) goes from the power source to the appliance.</p> <p>5. The neutral wire (blue) goes from the appliance back to the power source to complete the circuit. It is important to have a switch attached to the live wire so that when an appliance or socket is switched off it is not live.</p>	<p>1. The function of an appliance is to bring about an energy transfer.</p> <p>2. The amount of energy an appliance transfers depends on how long it is switched on for, and the power of the appliance.</p> <p>3. Power is the rate at which energy is transferred or work is done.</p> <div style="text-align: center;"> <math display="block">\text{Power} = \frac{\text{Energy}}{\text{Time}}</math> <p style="font-size: small;"> <span style="margin-right: 100px;">Measured in Watts (W)</span> <span style="margin-right: 100px;">Measured in Joules (J)</span> <span>Measured in seconds (s)</span> </p> <math display="block">P = \frac{E}{t}</math> </div> <p>4. Watt of power = 1 joule of energy transferred each second.</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p style="text-align: center;">Energy transferred = Power x Time</p> <p style="text-align: center;"><math>E = P \times t</math></p> </div>	
2 <b>Direct Current (D.C.)</b>		16 <b>Direct &amp; Alternating Current</b>	20 <b>The Cost of Electricity</b>
3 <b>Fossil Fuel</b>		<p>1. Direct current (d.c.) travels in one direction only.</p> <p>2. Cells and batteries supply direct current.</p> <p>3. Alternating current (a.c.) continually reverses direction.</p>	<p>When we say we are 'using electricity', we are using energy which has been transferred electrically. Electricity meters measure the number of units of electricity (energy) used in a home or building. The more units used, the greater the cost. When calculating the cost of electricity, we calculate energy transferred in kilowatt-hours (kWh). kWh is a unit of energy transferred.</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <math display="block">\text{Energy transferred} = \text{Power} \times \text{Time}</math> <p style="font-size: x-small; text-align: center;">Units (kWh) = power (kW) × time (h)</p> <math display="block">\text{Total cost} = \text{number of units} \times \text{cost per unit}</math> <p style="font-size: x-small; text-align: center;">Units (kWh)</p> </div> <p>We can also calculate power if we know the current flowing through an appliance and the p.d. across it</p> <div style="text-align: center;"> <math display="block">\text{Power} = \text{Current} \times \text{Potential Difference}</math> <p style="font-size: small;"> <span style="margin-right: 100px;">Measured in Watts (W)</span> <span style="margin-right: 100px;">Measured in Amps (A)</span> <span>Measured in Volts (V)</span> </p> <math display="block">P = I V</math> </div>
4 <b>Frequency</b>		17 <b>Plugs</b>	<p>We know that</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px;"><math>E = P \times t</math></div> <span>and</span> <div style="border: 1px solid black; padding: 5px;"><math>P = I V</math></div> </div> <p>Putting these together we see that..</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <math display="block">E = I \times V \times t</math> </div> <p>Which can also be written as..</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <math display="block">E = I t V</math> </div> <p>To calculate the energy transferred by an appliance we use the equation:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <math display="block">\text{Energy (Joules)} = \text{Power (Watts)} \times \text{time (seconds)}</math> <math display="block">E (J) = P (W) \times t (s)</math> </div> <p>We can also use the equation:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <math display="block">\text{Energy (Joules)} = \text{Charge flow (Coulombs)} \times \text{Potential difference (Volts)}</math> <math display="block">E (J) = Q (C) \times V (V)</math> </div>
5 <b>Fuse</b>		18 <b>Energy Resources</b>	
6 <b>Live Wire</b>		<p>1. In the UK, most appliances use a three-core cable.</p> <p>2. The neutral wire is blue, the live wire is brown, and the earth wire is green and yellow.</p> <p>3. The earth wire is a safety feature and is not needed to complete the circuit.</p> <p>4. The earth wire connects to the case of the appliance, so that if a loose wire touches it, the case will not conduct electricity.</p>	
7 <b>National Grid</b>			
8 <b>Neutral Wire</b>			
9 <b>Power</b>			
10 <b>Renewable (energy resource)</b>			
11 <b>Resistance</b>			
12 <b>Static electricity</b>			
13 <b>Step-down transformer</b>			
14 <b>Step-up transformer</b>			

<b>Adjective:</b>	A word which describes a noun
<b>Adverb:</b>	A word which describes a verb
<b>Analytical Verb:</b>	Language to use in your analysis: the writer <i>suggests</i> / indicates / implies / emphasises
<b>Audience:</b>	Who the text is specifically aimed at
<b>Authorial Intent:</b>	The writer's goals or ambitions for how readers will respond and react to the text
<b>Connotations:</b>	The links or associations you have with a word
<b>Context:</b>	Thinking about what the world was like when a text was written, and how that influenced it
<b>Convention:</b>	Typical traits you would find in a specific kind of text
<b>Dialogue:</b>	A scripted conversation between two or more characters
<b>Dramatic Irony:</b>	When a readers/audience knows something that a character in the text does not know themselves
<b>Ethos:</b>	A persuasive device: the use of your character, credibility and experience to persuade someone
<b>Femininity:</b>	Traits associated with being a female.
<b>Great Chain of Being:</b>	A belief system which ranks people in relation to their spirituality or godliness
<b>Inference:</b>	What you can work out from the text – reading between the lines
<b>Juxtaposition:</b>	Opposing or contrasting ideas nearby each other in a text
<b>Logos:</b>	A persuasive device: the use of logic or facts to persuade someone
<b>Masculinity:</b>	Traits associated with being 'manly'
<b>Metaphor:</b>	Figurative language: making a comparison saying something <i>is</i> something else (e.g. the moon is a ship in the sky)
<b>Monologue:</b>	A long speech delivered by one character
<b>Noun:</b>	The name of a person, place or thing (concrete noun: something you can see/touch; abstract noun: an idea/feeling)
<b>Oxymoron:</b>	A figure of speech with two seemingly contradictory words used together
<b>Pathos:</b>	A persuasive device: the use of feelings or emotion to persuade someone
<b>Patriarchal Society:</b>	A society which is ruled by men
<b>Prologue:</b>	An introductory section to a play, novel or film
<b>Pronoun:</b>	A word which replaces a noun (e.g. I, she, he, it, they, we, you)
<b>Purpose:</b>	Why the text has been written; links to authorial intent
<b>Simile:</b>	Figurative language: making a comparison by saying something is <i>like</i> something else (e.g. the stars are <i>like</i> diamonds)
<b>Soliloquy:</b>	A monologue giving audiences insight into a character's private thoughts
<b>Symbolism:</b>	When an object/idea represents something deeper
<b>Theatre:</b>	A place where a play is performed to a live audience
<b>Theme:</b>	A reoccurring idea throughout the text
<b>Tone:</b>	The mood or emotion of the text
<b>Verb:</b>	An action or a doing word

# Year 9 History Term 2 Knowledge Organiser: The Holocaust

The Holocaust was the mass murder of Jews under the German Nazi regime from 1941-1945. More than 6 million Jews along with other persecuted groups were systematically murdered.



ANTISEMITISM	Prejudice against Jews in either words or actions.
SYNAGOGUE	A building in which Jewish people worship and study their religion.
STEREOTYPES	A well-known idea or image of a person or idea that is held by a number of people
PROPAGANDA	A way of controlling the public attitudes.
PERSECUTE	To treat someone unfairly or cruelly over a long period of time because of their race, religion, or political belief.
UBERMENSCHEN	The Nazi's used this word for the Master Race. Meaning racially pure and of high standings. Also means Superhuman.
UNTERMENSCHEN	Nazis used this word. A person considered racially or socially inferior. Also means sub-human.
GHETTO	Walled of part of a city where Jews were forcibly moved too and forced to stay in.
GENOCIDE	To murder an entire race of people.
FINAL SOLUTION	The plan by the Nazis to murder every European Jew during World War Two.
CONCENTRATION CAMP	A place where people are concentrated and imprisoned without trial. Could also be called a labour camp.
DEATH CAMPS or EXTERMINATION CAMPS	The aim was to murder and completely destroy all the people in the camp.
SHOAH	Means 'calamity' in Hebrew. Jewish name for the Holocaust.
LIBERATION	The act or process of freeing a country or a person from the control of somebody else.

## TIMELINE OF THE HOLOCAUST



# Year 9 BTEC Dance Subject Term Knowledge Organiser

## Component 1- Exploring the Performing Arts Jazz Dance

Students will gain a **practical appreciation** of practitioners' work in using existing performance material in dance. They will learn how they may respond to or treat a particular theme or issue. How they also use/interpret/modify a pre-existing style and how they communicate ideas to their audience through stylistic qualities.

### Bob Fosse- choreographer

Characteristic of his style is a type of trio dance, with its forward thrust of hips, hunched shoulders, turned-in feet and sharp, jazzy movements enhanced by sound effects. Derbies and animated hands became trademarks of his work

- Fosses show-stopping ability came from the knowledge of how to build a number to a climax, to give it a beginning, middle and end – and his ability to do it with sex and humour.
- Fosse dancers must be able to isolate everything, right down to their eyeballs, elbows and fingers. When a Fosse dancer learns to focus her energy in stillness, she can grab the audience with a simple flutter of her fingers. "It should look like you're not working at all—but you'll come off stage sweating."

### Overview of key features:

- Sound effects (clapping hands, stamping feet, fsss sounds)
- Percussive rhythms
- Derbies and white gloves
- Angular posturing
- Shoulder rolling
- Finger stretching
- Dynamic use of lightening effects
- Percussive sounds which are a key feature of Jazz genre.
- Undercurrent of sensuality



**CHICAGO** focuses on the theme of celebrity and what people will do to achieve it. Neither Roxie nor Velma murder purely for publicity, but once they have they are eager to exploit their newly found fame to the full.

### Historical context

The piece was set in 1924 and Chicago was based on real stories. In particular, the 1926 play by Maurine Dallas about the murders and trials of Belva Gaertner and Beulah Annen. This meant Chicago's press and public became riveted by the subject of homicides committed by women. The time of Vaudeville was a very popular art form in the 1920's consisting of a diverse series of short acts. In the 2000 film version before Velma goes on stage you can hear the director say "on in five" meaning that this was part of a Vaudeville variety show.

### ROXIE HART- main character

As pretty as she is self centred, Roxie Hart's unrelenting search of fame and glory forms the spine of "Chicago". Not very bright and never thinking about the consequences of her actions, Roxie makes bad decisions throughout the show – all in the name of public recognition. Her wannabe vaudeville mind set lasts throughout the entire show.

### Velma Kelly-main character

Tough, sexy, and sarcastic, Velma Kelly is a vaudeville performer who resides in Cook County Jail after she murdered her cheating husband and sister. Used to being the "main attraction", Velma fiercely competes with up and coming rival superstar Roxie for the attention of the press and to preserve her celebrity status. In Brechtian style, Velma often breaks the fourth wall and addresses the audience directly to explain certain events within the show and express herself in the style of Fosse.



# Year Subject Term Knowledge Organiser 9: Photoshop

## How images are represented by binary

### What is a pixel?

The word pixel comes from 'picture element'. A pixel is a tiny coloured pixel square. Digital images are made up of lots of pixels. Each pixel in a digital image will need to be converted into binary.

### What is binary?

Binary is a 2-base number system of 1s and 0s. The 1s and 0s represent electrical signals, 1 = on and 0 = off. All computer data (including digital images) is converted into binary in order for it to be processed. **Representing images**

Digital images are converted into binary so that the computer can process them. Each pixel in a digital image is made up of binary numbers. These binary numbers are processed by the CPU.

### Representing images

Digital images are converted into binary so that the computer can process them. Each pixel in a digital image is made up of binary numbers. These binary numbers are processed by the CPU.

## Types of Graphics

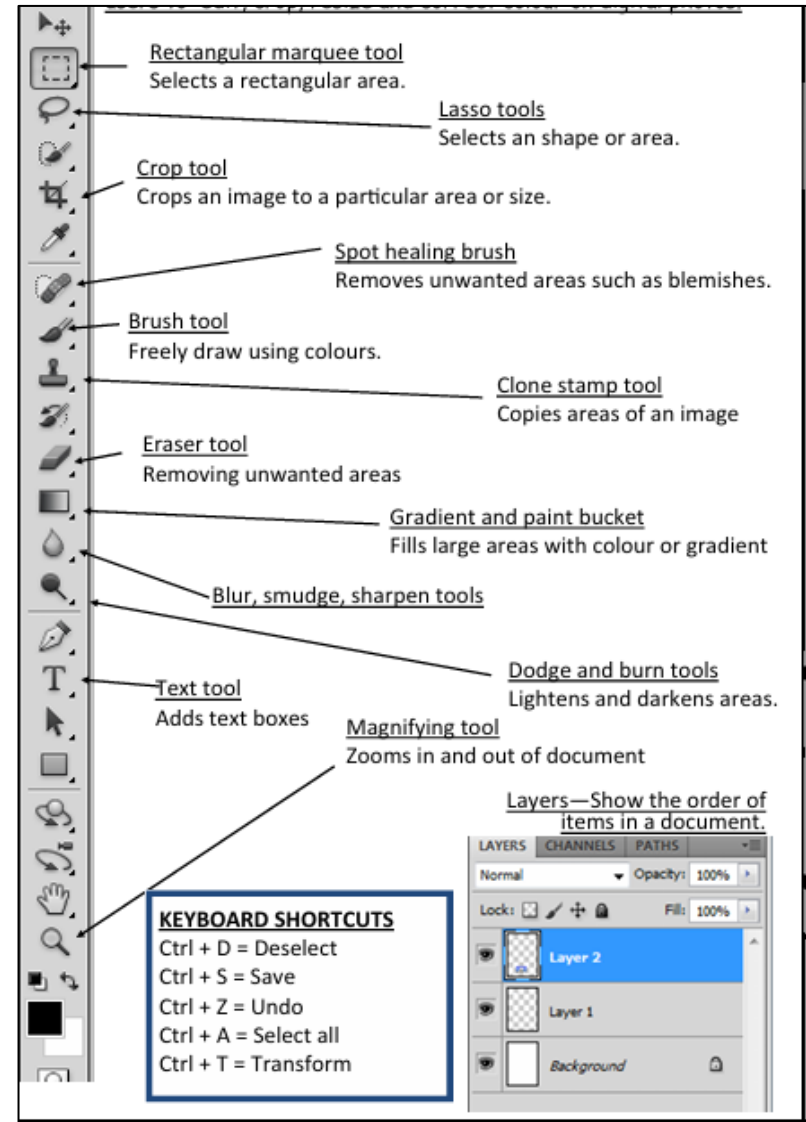
### BITMAP:

Bitmap graphics are made up of pixels. Each pixel is stored on the computer as a series of 1s and 0s. When you take a photo with your smart phone it stores the digital image as a bitmap.

### VECTOR

Vector graphics do not have any pixels. Instead they are made up of lines and shapes. When a vector is enlarged the lines and shapes are redrawn; making them great for resizing.

## Photoshop Tools





# MFL Knowledge Organiser Summer 1 Yr 9 El Colegio



## A Tenses

PRESENT	-ar verbs	-er verbs	-ir verbs
I	-o	-o	-o
you	-as	-es	-es
he/she/it	-a	-e	-e
we	-amos	-emos	-imos
you (pl)	-áis	-éis	-ís
they	-an	-en	-en

	ser (to be)	estar (to be)	tener (to have)	ir (to go)
(yo)	soy	estoy	tengo	voy
(tu)	eres	estás	tienes	vas
(él/ella/usted)	es	está	tiene	va
(nosotros/as)	somos	estamos	tenemos	vamos
(vosotros/as)	sois	estáis	tenéis	vais
(ellos/ellas/ustedes)	son	están	tienen	van

B

Conditional tense- saying what you would do.

Infinitive verb

ESTUDIAR

+

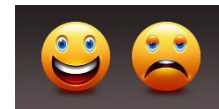
ía  
ías  
ía  
íamos  
íais  
ían

## Opinions

C

Odio  
Detesto  
Prefiero

## Pronouns



D

Me chifla(n)  
Me interesa(n)

Me = me  
Le = him/her  
Nos = us

Me aburre(n)  
No me interesa(n)

## Connectives

E

Primero  
Luego  
Normalmente  
A veces  
Por la mañana  
Por la tarde

first  
then  
normally  
sometimes  
in the morning  
in the afternoon



## Complexity



F

(No) Se debe= one must ( not) (No) Se puede= One (can/ can't)  
(No) Debo= I must (not) (No) puedo= I can/(can't)

No se debería= you wouldn't have to

Haría = I would do  
Tendría= I would have  
Se podría= you could

Se debería= you would have to

## Adjectives

G

favorito	Favourite
aburrido	Boring
difícil	difficult
Divertido/a	Fun
fácil	Easy
Importante	important
interesante	Interesting
Práctico/a	Practical
útil	Useful

H

Muy = very  
Bastante = quite  
Un poco = A little bit  
Demasiado=too  
realmente= really



# Year 9 El Instituto/ Colegio TOPIC VOCABULARY TRANSLATED

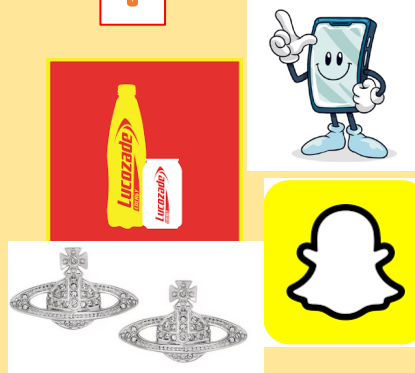
K

El teatro drama  
El dibujo art  
El español Spanish  
El inglés English  
El francés French

La educación física P.E  
La geografía Geography  
La historia History  
La informática ICT  
La música Music  
La tecnología Technology

Las ciencias Science  
Las matemáticas Maths

I



La ropa de calle own clothes  
Mis zapatos de deporte trainers  
Hamburguesas/ el pollo frito burgers/fried chicken  
Bebidas energizantes energy drinks  
Joyas jewellery  
Mis amigos my friends  
Club de las redes sociales social media club



Los verbos

J

- Estudiar/ estudiaría
- Llevar/ llevaría
- Comer/ Comería
- Ir/ Iría
- Usar/ Usaría
- Deberse/ se debería
- Hacer/ haría
- Tener/ tendría
- Poderse/ se podría

Un día típico  
Llego al colegio  
Las clases empiezan  
Hago mis deberes en la biblioteca  
Voy al club de...  
Hago actividades extraescolares  
Salgo de colegio  
Vuelvo a casa

I arrive at school  
lessons start  
I do homework in the library  
I go to ... club  
I do extra-curricular activities  
I leave school  
I return home

Hacer cola en la cantina  
Levantar la mano antes de hablar  
Llevar uniforme

queue in the canteen  
put your hand up before speaking  
wear uniform

Comer chicle  
Comer en las aulas  
Llevar maquillaje  
Ir al baño durante las clases  
Usar el móvil

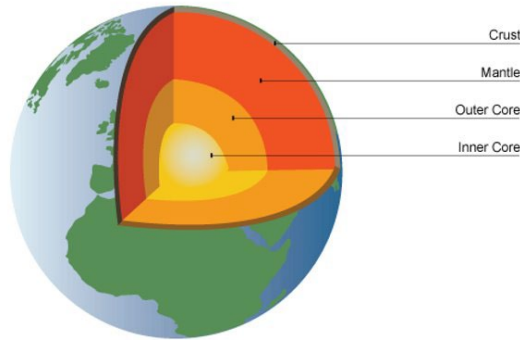
chew chewing gum  
eat in classrooms  
wear make up  
go to the toilet in lessons  
use your phone



### Structure of the Earth

The Earth has four main layers - the **inner core**, the **outer core**, the **mantle** and the **crust**.

- The **inner core** is extremely hot and is a very dense solid.
- The **outer core** is 2,000 km thick and is a liquid.
- The **mantle** is semi-molten and about 3,000 km thick.
- The **crust** is the rocky outer layer; it is thin compared to the other sections, approximately 5 to 70 km thick.

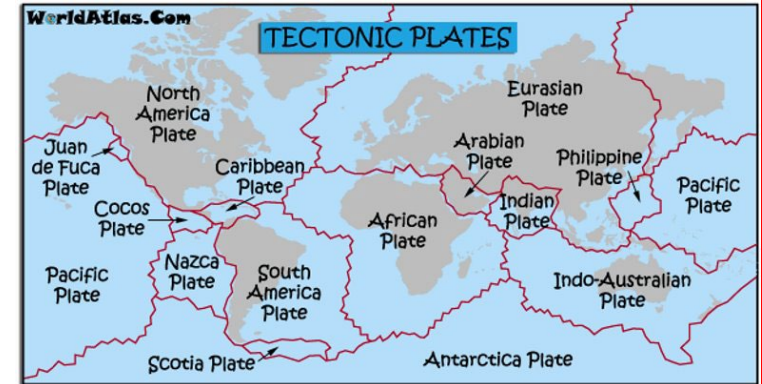


### Plate tectonics

**Plate margin:** where two or more plates meet

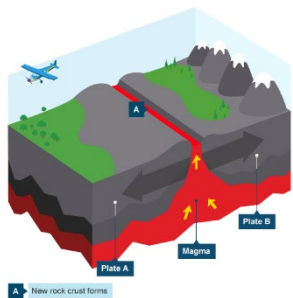
**Convection currents:** movement within the Earth's mantle caused by the heat of the core

The Earth's crust is broken up into huge slabs called plates. The plates float on the mantle and are constantly moving by **convection currents**. When these plates move, they bump into, move away from, or rub up against other plates at the **plate margins**. How these plates move in relation to other plates dictates what type of plate margin it is and helps us understand what types of hazards will occur there.



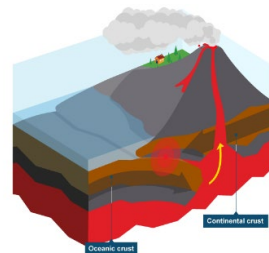
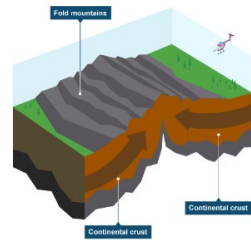
### Constructive plate margin

A constructive plate margin occurs when **plates move apart**. Volcanoes are formed as magma wells up to fill the gap, and eventually new crust is formed. Earthquakes occur here also. **E.g.** North American and Eurasian plates forming the mid-Atlantic Ridge.



### Destructive plate margin

**Destructive plate margins occur when tectonic plates move towards each other and collide. The effect this has depends on what kinds of plates are colliding:**



- **If two continental plates collide**, they are both buoyant and so cannot sink into the mantle. As a result, compression forces the plates to collide and form fold mountains. **E.g.** The Indian & Eurasian plates formed the Himalayas.

- **If an oceanic and a continental plate move towards each other**, the denser oceanic plate is subducted and sinks under the continental plate and into the Earth's mantle, where it is recycled. Earthquakes, fold mountains and volcanoes occur. **E.g.** The Nazca & South American Plates.

### Conservative plate margin

A conservative plate margin occurs where **plates slide past each other** in opposite directions, or in the same direction but at different speeds.

Friction is eventually overcome and the plates slip past in a sudden movement. The shockwaves created produce an earthquake.

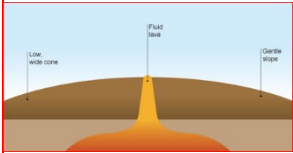
**E.g.** The North American and Pacific plates forming the San Andreas Fault in California.



# Tectonics Knowledge Organiser

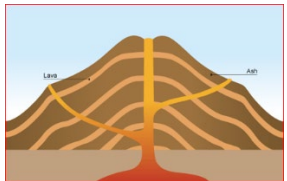
## Volcanoes

Volcanoes are vents to the interior of the planet - they allow magma from the mantle to spill out as lava onto the Earth's crust. There are 2 types of volcanoes, shield and composite.



A **shield volcano** has gently sloping sides and runny lava that covers a wide area.

A **composite volcano** is steep sided and cone-shaped, it is made up of layers of ash and lava. The lava is sticky so it does not flow far.



## Case Study: Iceland

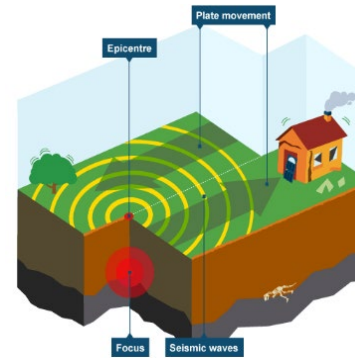


This volcano began erupting lava on 20<sup>th</sup> March 2010. Impacts of the eruption include:

- Melting of large amounts of ice which led to flooding in Southern Iceland
- Ash from the volcano contaminated their local water supplies
- All over Europe airplanes were grounded until the air cleared
- The ash deposited iron into the North Atlantic triggering a plankton bloom

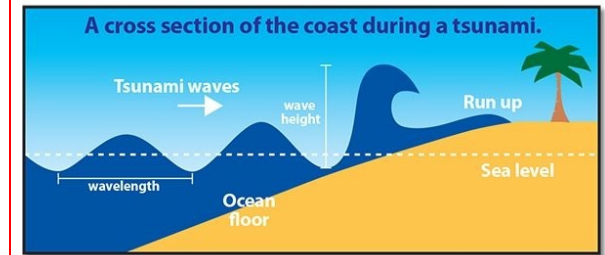
## Earthquakes

Earthquakes are the sudden violent shaking of the ground. This happens because the Earth's plates are constantly moving. Sometimes, because of **friction**, plates try to move and become stuck. **Pressure** builds up because the plates are still trying to move. When the pressure is released, it sends out huge amounts of **energy** causing the Earth's surface to shake violently. The point inside the Earth's crust where the earthquake originates from is known as the **focus**. The earthquake's energy is released in **seismic** waves and they spread out from the focus. The **epicentre** is the point on the Earth's surface directly above the focus. The seismic waves are most powerful at the epicentre.



## Tsunami

Tsunami is a Japanese word which means 'harbour wave'. A tsunami is a large sea wave caused by the displacement of a large volume of water. They can be caused by earthquakes triggered by moving sections of the Earth's crust under the ocean. Tsunamis have many social, economic, and environmental impacts depending on where they hit and their size.



## Case study: Nepal vs Japan Earthquakes

	Nepal 2015 (LIC)	Japan 2011 (HIC)
<b>Magnitude</b>	7.8	9.0
<b>Death Toll</b>	8,632	15,894
<b>Injured</b>	19,009	6,152
<b>Social Impacts</b>	Hundreds of thousands made homeless	500,000 people evacuated
<b>Economic Impacts</b>	Loss of tourism (a major industry in Nepal)	56 bridges and 26 railways destroyed or damaged
<b>Environmental Impacts</b>	Triggered several avalanches	Triggered tsunami & nuclear meltdown
<b>Cost to rebuild</b>	\$10/ £7.8 Billion	\$309/ £189 Billion

## Managing hazards

There are 3 things we can do to lessen the affects of earthquakes, the 3 Ps.

**Prediction** - Using technology to estimate when and where we think an earthquake is going to happen. **We often know where one will happen but it is difficult to figure out when it will.**

**Protection** - Putting measures in place to help protect people during an earthquake. The most important and common one is **building special buildings that will not collapse.**

**Preparation** - This is all about getting ready for when the next one comes. It includes **special drills and practices so people know what to do, and preparing materials in advance.**

# What is Suffering?

## Key terms

Human suffering	Suffering caused by humans e.g. shooting someone.
Natural suffering	Suffering caused by events which cannot be controlled by humans e.g. earthquakes.
Original sin	All humans are born with evil (the first sin) as a result of the fall of Adam and Eve.
Siddhartha Gautama	The leader of Buddhism (the Buddha).
Job	The Character in the Bible demonstrating why suffering occurs to Christians.

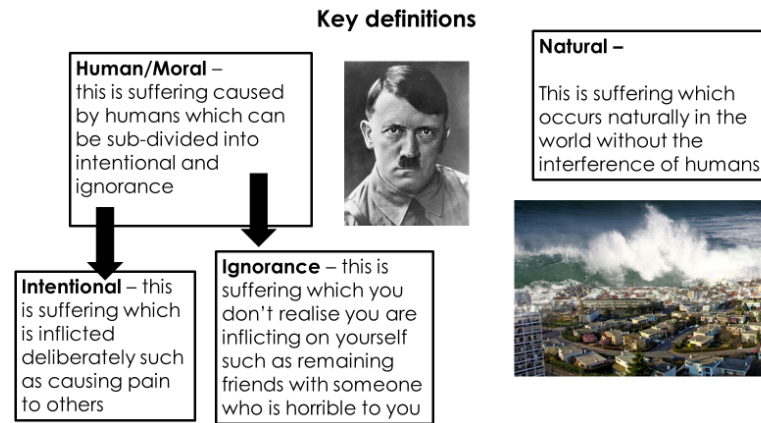
## Crucial Commands:

**Describe:** Say in detail what something or someone is like, and the impact it has. E.g. Describe the the work of Christian Aid

**Explain:** Say why something or someone is important, and the impact it has. E.g. Explain the impact of the Crusades on society and religion.

**DISCUSS:** Write about at least two points of view and explain why these points of view are valuable or not. E.g. "What would the world be like without religion?"

## Types of suffering:



## How do Christians understand suffering?

- There is no physical description of Jesus **anywhere** in the Bible.
- Artists want Jesus to look like themselves and their cultures to feel a kind of connection to Jesus.

## What do Buddhists say about suffering?

Muslims believe that Allah (God) is the creator and the focus of our worship. They want to avoid people worshiping anyone apart from Allah, therefore it is easier to avoid images.

- Calligraphy
- Arabesque
- Vedic Squares

## How can we overcome suffering?

Flags are printed with symbols and prayers or mantras. Each colour has a significance, they represent the five elements.

- Blue represents sky and space
- White is for the wind and air
- Red symbolises fire
- Green signifies water
- Yellow is for earth



## What are some good solutions?

### Lantern Floating Festival at the Shinnyo-en Buddhist Centre in Surrey.

- At the ritual nearly 1000 people made a lantern, writing a personal message or prayer of remembrance, appreciation and hopes, on a lantern. The lanterns were then lit – as a symbol of inner light – and floated together across the lake.



## What is real happiness?

**Creative expression is the ability to use our minds and imaginations to create something that represents ourselves. There are countless ways to express ourselves creatively, whether through music, visual art, crafting, writing, photography, drama, or movement.**



# Year 9 Subject Term Knowledge Organiser

## Athletics

### Knowledge

Be able to demonstrate my performance.

Show a range of skills in a competitive situation in track events 100m, 200m, 300, 400, 800m, 1500m and field events – throwing = Discus, Javelin, Shot Put – jumping = Long Jump, High Jump, Triple Jump.

### Key Skills:

#### Running events

• Pre-race tactics • Changing and adapting your race tactics • Positioning in the field, where to run in the pack, when to lead and when to follow (where appropriate) • Timing of kicking for the finish line • When to dip for the finish line • Awareness of the rules and regulations of the event and their application (including officials commands/signals)

#### Jumping events

• Pre-event tactics • Tactics for qualifying jumps/Entry height and the choice of when to 'pass' on a height/ round • Changing and adapting your jump tactics: • Consideration of weather conditions • Appropriate distance/number of steps chosen for run up • In competition check mark adjustment • Awareness of the rules and regulations of the event and their application (including officials commands/signals)

#### Throwing events

: • Pre-event tactics • Tactics for qualifying throws • Changing and adapting your throw.

### Key Content and Terms to learn:

RELAY: a race of teams of runners passing batons to each other on a team\*

STARTING BLOCKS: blocks for keeping runner's feet in a fixed position at the start\*

TRACK: an oval shaped piece of ground for athletes to run\* TRACK SHOES

(TRACK SPIKES): sports shoes for running competitions on a track

### Stretch and Challenge Task:

Try analysing the performance of yourself or a famous athlete.

What are their strengths and weaknesses what practices could they do to improve performance?



# Year 9 Drama HT6 Knowledge Organiser

## Summary of topic

Students will be understanding the requirements of devising drama from stimuli. They will need to work on exploration strategies to create 'real' drama from a range of different inspirational different media. They will understand what constitutes the combination of creating a performance from images, quotes, poems, news reports, music, lyrics, real life roles and iconic stories. They will develop their performance skills as an actor, designer and director.

## Aims of the topic

To experience the process of creating your own play from scratch

## Devising

Y9

## Knowledge Organiser

## Assessment & Performance Tips

The assessment is a group piece they have created using a practitioner influence.

- Face the audience at all times
- Speak loud and clear so everyone can hear you
- Try not to laugh and stay focused.
- Use a real range of movement skills.
- Add emotion to your performance.
- Make your performance believable.

## Skills & Definitions

**Ensemble** – Collaborated group performance.

**Characterisation** – The creating, development and performance of a created character.

**Improvisation** – Spontaneous acting and suggestions that further develop a performance.

**Devised** – Original created performance material, often using a stimulus.

**Stimuli** – The starting point e.g. picture, quote, word or song. You chose one.

**Practitioner** – Brecht or Artaud and how they influenced the performance.

**Brecht** – Famous for Political and Epic Theatre. (See practitioner knowledge organiser). Made the audience think and bring real change.

**Artaud** – Famous for Theatre of Cruelty (See practitioner knowledge organiser). Made the audience feel uncomfortable.

**Genre** – Physical theatre is NOT a practitioner, it is a STYLE of drama focused upon storytelling using movement.

**Techniques** – The key skills which are relevant to the practitioner or genre (see practitioner knowledge organiser).

**Final performance** – The end performance of the piece.

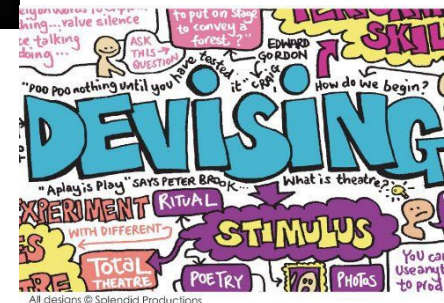
**Rehearsal** – The process of creating and developing your piece of theatre

# DRAMA



## Key Words

Performance	Stimulus
Rehearsal	Inspiration
Improvisation	Case study
Characterisation	
Creativity	



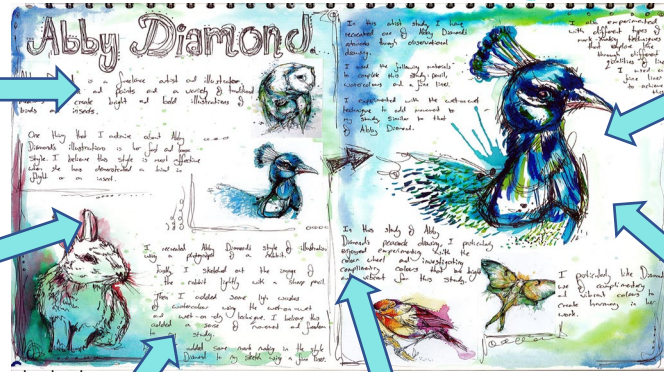
# Year 9 Abby Diamond Knowledge Organiser

## Artist Research Page

A study of the artist's work has been included in their exact same style.

Interesting composition and background has been included.

Annotation has been included which demonstrates a personal response to the artist (not just copied from Wikipedia!)



Attempt to use the same material as the artist where possible and apply the medium in a similar way.

Pictures of the artists work has been cut out straight and glued in neatly.

70/30 rule has been applied!  
70% of the work on your research page must be your own work, 30% included images of the artist work and any quotations.

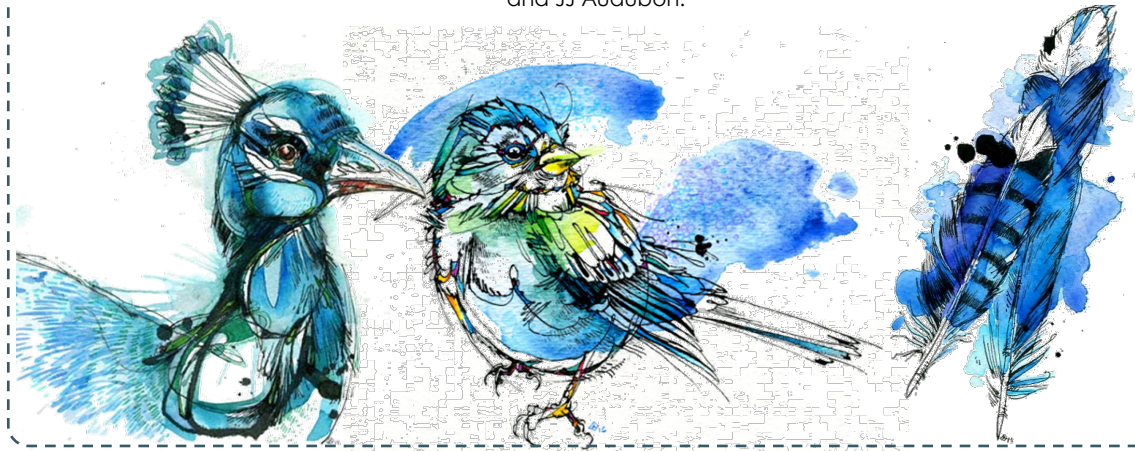
## Abby Diamond

Abby Diamond is a freelance illustrator and visual artist, living and working in Pittsburgh USA.

She uses ink and watercolour paints, and a variety of traditional mediums to create bright, colourful creatures, and whimsical beasts.

She draws constantly, and while paying close attention to details, she loves to splash around and experiment with her work.

Her main sources of inspiration is the natural world, backyard wildlife, early English illustrators Beatrix Potter and JJ Audubon.



## Watercolour Techniques

There are several different techniques when using watercolour paints, however, today you will be focusing on three techniques.



**Wet-on-wet** means that wet paint is applied to wet paper, or added to a wash of fresh wet paint.

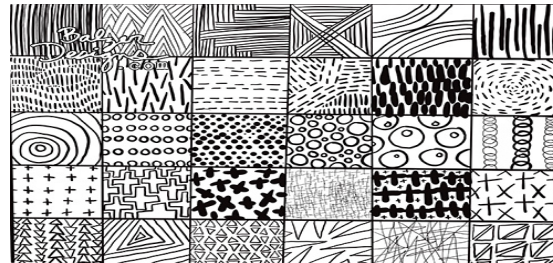


**Wet-on-dry** simply means that you're applying wet paint onto dry paper, or wet paint onto an area of dry paint.



A **Graduated Wash** means that you use the wet-on-dry method and add water afterwards to create a blended gradient.

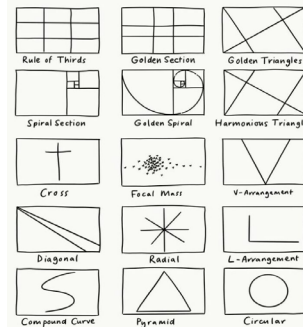
## Mark Making Techniques



Mark making describes the different lines, dots, marks, patterns, and textures we create in an artwork.

It can be loose and gestural or controlled and neat. It can apply to any material used on any surface: paint on canvas, ink or pencil on paper, a scratched mark on plaster, a digital paint tool on a screen, a tattooed mark on skin...even a sound can be a form of mark making.

## Composition



Composition in art is the way in which different elements of an artwork are combined. In general, this refers to the key subjects of the artwork and how they are arranged in relation to each other.

## Annotation



describes writing notes, cutting & pasting images or adding explanatory text about your thoughts, experiments & ideas in order to show the development of your own art & working methods

**YOUR DIGITAL SKETCHBOOK SHOULD SHOW ANNOTATIONS ON THE FOLLOWING THEMES:**  
• INSPIRATION • IDEAS • MATERIALS • TECHNIQUES • EVALUATION

Looking at other artists' successes + failures + what you're trying to address  
Brainstorming your solutions to the problems & media you have to work with (pros + cons of each)  
Investigating alternative tools & methods to work with (pros & cons of each)  
The different methods experimented with along the way, a final piece (strengths & weaknesses)  
Assessing your own progress towards developing issues faced

ANNOTATION IS A THREE-STAGE PROCESS: DESCRIPTION > EXPLANATION > REFLECTION

① DESCRIBE (WHAT?) ② EXPLAIN (HOW?) ③ REFLECT (WHY?)

• How was this work made?  
• How did you produce particular effects?  
• How did you decide on the composition?  
• Why did you use these specific methods?  
• Why do particular elements work better than others?  
• Why might you do things differently next time?

**PLEASE NOTE**  
VISUAL STYLE...  
THE DESIGN CHOICES YOU MAKE IN HOW YOU PRESENT EACH DOUBLE-PAGE SPREAD IN YOUR DIGITAL SKETCHBOOK SHOULD REFLECT THE VISUAL STYLE OF THE WORK BEING DISCUSSED (i.e., watercolours / 8-bit computer graphics / the work of a particular artist / handmade)



# Year 9 CONFECTIONARY Knowledge Organiser

## Artist Research Page

A study of the artist's work has been included in their exact same style.

Interesting composition and background has been included.



Attempt to use the same material as the artist where possible and apply the medium in a similar way.



Pictures of the artists' work has been cut out straight and glued in neatly.



Annotation has been included which demonstrates a personal response to the artist (not just copied from Wikipedia!)



70/30 rule has been applied!  
70% of the work on your research page must be your own work, 30% included images of the artist work and any quotations.

## Nikau Hindin

This artist is from New Zealand, she works with the topic of junk food, focusing on the excessive consumption of junk food by young people and the health risks that are linked to the consumption of additives and high calorie products. She uses 'mixed media' in her artwork, which includes pencil, paint, biro/pen, Indian ink, cardboard cut outs and stencils.

Nikau embraces new technology, using Photoshop to generate her compositions. There are sometimes beautiful textures in her work, created by thick, painterly layers. There is an uneasy feel in her work and a feeling of horror as you see the names of artificial additives and ingredients leaching through the painting surface.

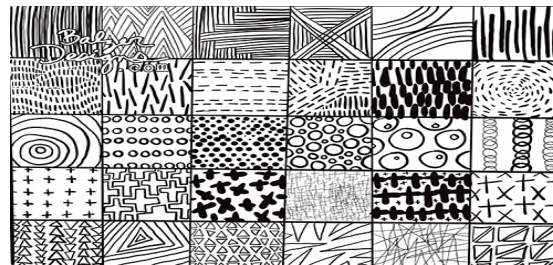


## Mono-Printing Technique

Below is a step-by-step guide for one method in creating a mono-print:

- 1) On a plastic sheet, roll out an even, tacky layer of printing ink. (You only need a small amount. (Roughly the size of a 5p coin).
- 2) Turn your COLLAGE over and place it face down on top of the ink, do not press down or lean on it.
- 3) Choose an image you wish to trace. (People eating food/different types of foods).
- 4) Place the image on top, draw over the top of your chosen image, picking out as much detail as you can but not taking too long. (Trace heavily but try not to lean on it).

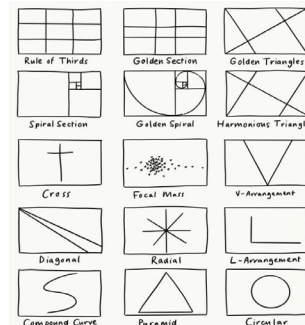
## Shading/Mark-Making



Mark making describes the different lines, dots, marks, patterns, and textures we create in an artwork.

It can be loose and gestural or controlled and neat. It can apply to any material used on any surface: paint on canvas, ink or pencil on paper, a scratched mark on plaster, a digital paint tool on a screen, a tattooed mark on skin...even a sound can be a form of mark making.

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describes writing notes, cutting & pasting images or adding explanatory text about your thoughts, experiments & ideas in order to show the development of your own art & working methods

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Looking at other artists' successes + failures  
Brainstorming to the problems you're trying to address  
Investigating alternative tools & media you have to work with (pros + cons of each)  
The different methods experimented with towards developing a final piece (strengths & weaknesses)  
Assessing your own progress along the way, successes & issues faced

ANNOTATION IS A THREE-STAGE PROCESS: DESCRIPTION > EXPLANATION > REFLECTION

① DESCRIBE (WHAT?) ② EXPLAIN (HOW?) ③ REFLECT (WHY?)

• How is this an image of? • How was this work made? • Why did you use these effects? • How did you produce particular effects? • How did you decide on the composition?  
• What have you done here? • How did you produce particular effects? • How did you decide on the composition?  
• Why do you use these specific methods? • Why do these particular elements work better than others? • Why might you do things differently next time?

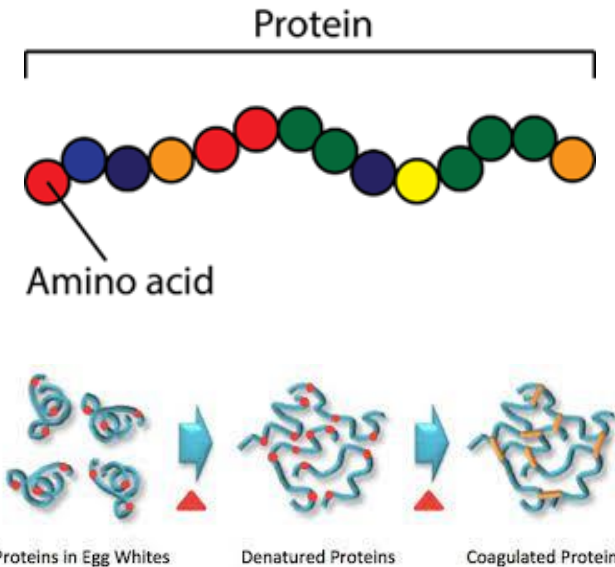
**VISUAL STYLE ...**  
THE DESIGN CHOICES YOU MAKE IN HOW YOU PRESENT EACH DOUBLE-PAGE SPREAD IN YOUR DIGITAL SKETCHBOOK SHOULD REFLECT THE VISUAL STYLE OF THE WORK BEING DISCUSSED (i.e., watercolours / 8-bit computer graphics / the work of a particular artist / handmade)

## Food poisoning bacteria

The main causes of food poisoning bacteria are:

- **Bacillus cereus**: found in reheated rice and other starchy foods.
- **Campylobacter**: found in raw and undercooked poultry and meat and unpasteurised milk.
- **Clostridium perfringens**: found in human and animal intestines and raw poultry and meat.
- **E-coli**: found in raw meat, especially mince.
- **Listeria**: found in polluted water and unwashed fruit and vegetables.
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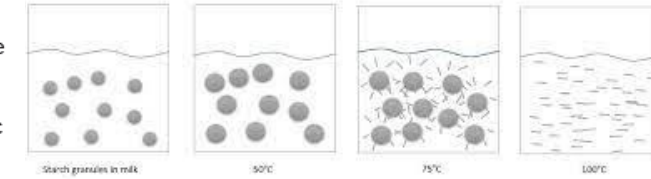
## Year 9 Food



## Food and the law

Food can cause ill-health if it is stored, prepared and/or cooked incorrectly or if a person unknowingly eats a food that they are allergic or intolerant to. All hospitality and catering provision need to follow laws that ensure food is safe to eat. They are:

- **Food Labelling Regulations (2006)**: A label must show all ingredients including allergens, how to store and prepare the food, where it came from, the weight of the food and a use-by or best-before date.
- **Food Safety (General Food Hygiene Regulations) 1995**: This law makes sure that anyone who handles food - from field to plate - does so in a safe and hygienic way. The HACCP system is used throughout the hospitality and catering sector.
- **Food Safety Act 1990**: This law makes sure that the food people it is safe to eat, contains ingredients fit for human consumption and is labelled truthfully.



## Temperature control

Delivery	Storage	Preparation	Service
<p>The temperature of high-risk foods must be checked before a delivery is accepted. The food should be refused if the temperatures are above the safe range.</p> <p>Refrigerated foods = <b>0-5°C</b> Frozen foods = <b>-22°C to -18°C</b></p>	<p>High-risk foods must be covered and stored at the correct temperature. Temperatures must be checked daily.</p> <p>Refrigerator = <b>0-5°C</b> Freezer = <b>-22°C to -18°C</b></p> <p>Unwashed fruit and vegetables must be stored away from other foods.</p>	<p>High risk-foods need to be carefully prepared to avoid cross-contamination. A food probe can be used to make sure that high-risk foods have reached a safe core (inside) temperature, which needs to be held for a minimum of two minutes.</p> <p>Core temperature = <b>70°C</b></p>	<p>Food needs to be kept at the correct temperature during serving to make sure it is safe to eat. Hot food needs to stay hot and cold food needs to stay chilled.</p> <p>Hot holding = <b>63°C minimum</b> Cold holding = <b>0-5°C</b></p>

## HACCP table

Here is an example of a HACCP table – it states some risks to food safety and some control points.

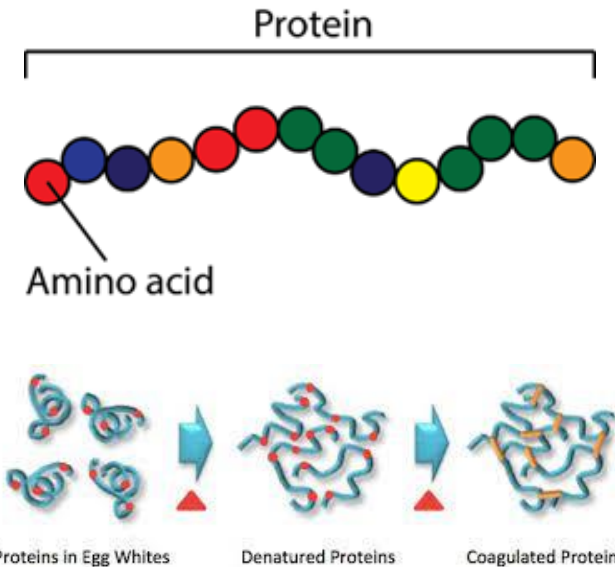
Hazard	Analysis	Critical Control Point
Receipt of food	Food items damaged when delivered / perishable food items are at room temperature / frozen food that is thawed on delivery.	Check that the temperature of high-risk foods are between 0°C and 5°C and frozen are between -18°C and -22°C. Refuse any items that are not up to standard.
Food storage (dried/chilled/frozen)	Food poisoning / cross contamination / named food hazards / stored incorrectly or incorrect temperature / out of date foods.	Keep high-risk foods on correct shelf in fridge. Stock rotation – FIFO. Log temperatures regularly.
Food preparation	Growth of food poisoning in food preparation area / cross contamination of ready to eat and high-risk foods / using out of date food.	Use colour coded chopping boards. Wash hands to prevent cross-contamination. Check dates of food regularly. Mark dates on containers.
Cooking foods	Contamination of physical / microbiological and chemical such as hair, bleach, blood etc. High risk foods may not be cooked properly.	Good personal hygiene and wearing no jewellery. Use a food probe to check core temperature is 75°C. Surface area & equipment cleaned properly.
Serving food	Hot foods not being held at correct temperature / foods being held too long and risk of food poisoning. Physical / cross-contamination from servers.	Keep food hot at 63°C for no more than 2 hours. Make sure staff serve with colour coded tongs or different spoons to handle food. Cold food served at 5°C or below. Food covered when needed.

## Food poisoning bacteria

The main causes of food poisoning bacteria are:

- **Bacillus cereus**: found in reheated rice and other starchy foods.
- **Campylobacter**: found in raw and undercooked poultry and meat and unpasteurised milk.
- **Clostridium perfringens**: found in human and animal intestines and raw poultry and meat.
- **E-coli**: found in raw meat, especially mince.
- **Listeria**: found in polluted water and unwashed fruit and vegetables.
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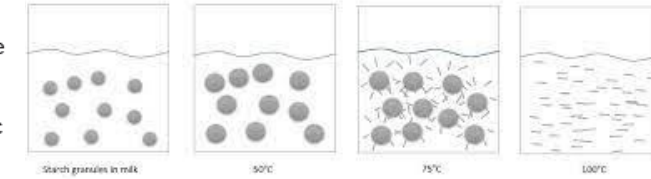
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# CLASs CONCERT

## THE BEATLES



Arranged by James Betteridge

♩ = 142  
Uku. 1 (Assessed part)

Pick your topic  
Recap  
Rehearse  
Perform

Click here for video

Piano riff

E F# G# B C# D# C# D# E A D# E

Developing

Play all 4 chords in order and hold each one for 4 beats.

Mastering

Play chords and bass notes in time with own rhythm (still 4 beats per chord)

Advancing

Play 4 chords in the Right hand and add the bass notes (lowest note of the chord) in the Left hand. Hold each for 4 beats.

Extension Challenge!

Chords: I - V - vi - iv (1-5-6-4)  
Is C - G - Am - F in C major  
Can you work out the chords in a new key?